

Date: Thu, 31 Mar 94 04:30:28 PST  
From: Ham-Homebrew Mailing List and Newsgroup <ham-homebrew@ucsd.edu>  
Errors-To: Ham-Homebrew-Errors@UCSD.Edu  
Reply-To: Ham-Homebrew@UCSD.Edu  
Precedence: Bulk  
Subject: Ham-Homebrew Digest V94 #80  
To: Ham-Homebrew

Ham-Homebrew Digest                      Thu, 31 Mar 94                      Volume 94 : Issue    80

Today's Topics:

                    Building WWV time decoder  
                                Ramsey kits  
            Semiconductor specs and equivalencies

Send Replies or notes for publication to: <Ham-Homebrew@UCSD.Edu>  
Send subscription requests to: <Ham-Homebrew-REQUEST@UCSD.Edu>  
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Homebrew Digest are available  
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-homebrew".

We trust that readers are intelligent enough to realize that all text  
herein consists of personal comments and does not represent the official  
policies or positions of any party. Your mileage may vary. So there.  
-----

Date: Tue, 29 Mar 1994 22:04:28 GMT  
From: hookup!news.kei.com!eff!news.umbc.edu!europa.eng.gtefsd.com!  
howland.reston.ans.net!cs.utexas.edu!csc.ti.com!tilde.csc.ti.com!ticipa!  
asic.sc.ti.com!news@tcgould.tn.cornell.edu  
Subject: Building WWV time decoder  
To: ham-homebrew@ucsd.edu

I know that WWV broadcasts the current time in a digital coded  
format. I would like to find information on this format. Better  
yet I would like to find a schematic for decoder circuit.

Any info leading me in the right direction would be helpful.

Thanks,

Clay Timmons    KB5SXS            e-mail: ctimmons@asic.sc.ti.com

-----

Date: Wed, 30 Mar 1994 10:00:21 GMT  
From: ihnp4.ucsd.edu!dog.ee.lbl.gov!agate!howland.reston.ans.net!gatech!wa4mei!  
ke4zv!gary@network.ucsd.edu  
Subject: Ramsey kits  
To: ham-homebrew@ucsd.edu

In article <CnFwKq.AxM@ra.nrl.navy.mil> drumhell@claudette.nrl.navy.mil (David Drumheller) writes:

> I'm interested in getting on 440 MHz ... cheaply. So I would consider  
>building a Ramsey kit. (They cost about \$160.) Questions: How easy are  
>they to build? Do they sell enclosures for them? How well to the radios  
>perform? How much test equipment do I need to calibrate and tune the  
>radio?

Oh, oh, here we go again. The Ramsey kit is fairly easy to build, and yes they sell a cabinet. They don't perform that well, and you need sophisticated equipment, at least a spectrum analyzer, to tune them up properly. (Maximum output and cleanest output aren't even in the same ballpark) It's not a horrible choice if you have access to the right equipment. But you'd certainly come out cheaper, and have a higher performance radio, if you convert ex-commercial surplus radios such as Motorola or GE to amateur service. There'll be tons of those in the upcoming Dayton fleamarket for \$50 or less.

Gary

--

Gary Coffman KE4ZV		You make it,		gatech!wa4mei!ke4zv!gary
Destructive Testing Systems		we break it.		uunet!rsiatl!ke4zv!gary
534 Shannon Way		Guaranteed!		emory!kd4nc!ke4zv!gary
Lawrenceville, GA 30244				

-----  
Date: Tue, 29 Mar 1994 18:37:11 GMT  
From: ihnp4.ucsd.edu!dog.ee.lbl.gov!agate!howland.reston.ans.net!  
usenet.ins.cwru.edu!news.ysu.edu!malgudi.oar.net!witch!ted!  
mjsilva@network.ucsd.edu  
Subject: Semiconductor specs and equivalencies  
To: ham-homebrew@ucsd.edu

In article <CnEv9G.K9H@acsu.buffalo.edu>, John J Welch (jwelch@acsu.buffalo.edu) writes:

>Dear Net:

>

>This seems like the relevant area to post since it is likely to be  
>read by both amateur and professional electronics people who work hands-on  
>everyday with semiconductors of all sorts, if another group would be

>more appropriate, please email me.

>

>Question: Is there a resource which one can consult, preferably online, to  
>get design specifications on semiconductor components and to determine  
>equivalencies between components for purposes of substitution?

>

>I am familiar with semiconductor catalogs which list chips from each  
>manufacturer, but this seems like an archaic way to go about searching.  
>In addition to the awkwardness of thumbing through these tomes, it would  
>seem too expensive to maintain libraries of these catalogs and keep them  
>up to date.

>

>I am interested only from the perspective of a hobbyist trying to maximize  
>the utility of his junk collection. There are several projects I would like  
>to try, but years after the projects have been written up, parts numbers  
>change, better substitutes come out, etc.

>

>

I don't have any knowledge of an online source, but one very good  
reference for mystery parts are the NTE, ECG and SK  
catalogs/cross-reference guides. These guides will cross-reference  
just about any semi you have to an equivalent (or slightly superior)  
device, and you can read the thumbnail specs on that device in the  
guide. You soon learn some of the part numbers by heart (e.g. the  
NTE 123A is your basic 2N3904/PN2222/etc). These guides cost \$3-\$4 and  
are readily available. Of course, the more exotic the device the less  
likely it is to be listed, but for hobby purposes we're generally  
using more common, available devices anyway. Another point to be aware  
of is that the equivalent devices may have slightly better specs than  
the device you're looking up (higher voltage, higher gain, etc). This  
might get you into trouble if you cross-reference desired part AAAA to  
(e.g.) ECG part BBBB and find that the BBBB is also the cross for a  
part CCCC, which you just happen to have. The CCCC may not be as  
"good" as the AAAA, depending. Most of the time, though, you should  
be OK.

BTW, I think some of these companies now have their cross-references on  
disk also.

73, Mike, KK6GM

-----

End of Ham-Homebrew Digest V94 #80

\*\*\*\*\*